



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

JAMES ZEHRINGER, DIRECTOR

*Richard J. Simmers, Chief*  
Division of Oil and Gas Resources Management  
2045 Morse Road, Building F-2  
Columbus, OH 43229-6693  
Phone: (614) 265-6922; Fax: (614) 265-6910

May 19, 2016

Ms. Anna Miller, Ohio Coordinator  
U.S. EPA, Region 5  
77 West Jackson Blvd.  
Chicago, IL 60604-3590  
ATTN: 5WU-16J

Dear Ms. Miller:

Enclosed please find the reporting forms for the first half Federal Fiscal Year 2016 that covers Class II and Class III wells in Ohio. Additionally, I have included the UIC well inventory and Semi Annual Technical Report.

If you have any questions regarding this matter, please feel free to contact me at (614) 265-6673.

Sincerely,

A handwritten signature in black ink, appearing to read "A. Adgate", is written over a horizontal line.

Andrew Adgate, UIC Manager  
Ohio Department of Natural Resources  
Division of Oil and Gas Resources Management  
2045 Morse Road, F-2  
Columbus, Ohio 43229-6693

Enclosures

Cc: Bob Worstall, Deputy Chief  
File

United States Environmental Protection Agency Office of Ground Water and Drinking Water Washington, DC 20460  <b>EPA</b> <b>UIC Federal Reporting System</b> <b>Part I: Permit Review and Issuance/</b> <b>Wells in Area of Review</b> (This information is solicited under the authority of the Safe Drinking Water Act)					<b>I. Name and Address of Reporting Agency</b>  United States Environmental Protection Agency Ohio Department of Natural Resources Division of Oil and Gas Resources Mgmt 2045 Morse Road, BLDG F-2 Columbus, OH 43229						
<b>II. Date Prepared (month, day, year)</b> 05/05/2016		<b>III. State Contact (name, telephone no.)</b> Andrew Adgate - 6142656673		<b>IV. Reporting Period (month, year)</b> From <b>October 1, 20</b> 15 To <b>03/31/2016</b>							
<b>Item</b>					<b>Class and Type of Injection Wells</b>						
					<b>AD</b>	<b>II</b>			<b>III</b>	<b>IV</b>	<b>V</b>
					<b>SWD</b> 2D	<b>ER</b> 2R	<b>HC</b> 2H				
<b>V. Permit Application</b>  Number of Permit Applications Received					7	3	1	2			
<b>VI. Permit Determination</b>	<b>Permit Issued</b>	<b>A</b>	Number of Individual Permits Issued (One Well)	New Wells	0	1	0	2			
			Existing Wells	4	2	0	0	0			
		<b>B</b>	Number of area Permits* Issued (Multiple Wells) (*See instructions on back)	New Well Field	0	0	0	0			
			Existing Well Field	0	0	0	0	0			
		<b>C</b>	Number of Wells in Area Permits (See B above)	New Wells	0	0	0	0			
			Existing Wells	0	0	0	0	0			
	Permit Not Issued	<b>D</b>	Number of Permits Denied/Withdrawn (after complete technical review)	3	2	0	0				
	Modification Issued	<b>E</b>	Number of Major Permit Modifications Approved	0	0	0	0				
<b>VII. Permit File Review</b>	Number of Rule-Authorized Class II Wells Reviewed		Wells Reviewed	0	0	0	0				
			Wells Deficient	0	0	0	0				
<b>VIII. Area of Review (AOR)</b>	Wells Reviewed	<b>A</b>	Number of Wells In Area of Review	Abandoned Wells	0	22	2	4			
			Other Wells	0	22	0	15				
	Wells Identified for C/A	<b>B</b>	Number of Wells Identified for Corrective Action	Abandoned Wells	0	0	0	0			
			Other Wells	0	0	0	0				
	Wells with C/A	<b>C</b>	1. Number of Wells in AOR with Casing Repaired/Recemented C/A	0	0	0	0				
			2. Number of Active Wells In AOR Plugged/Abandoned	0	0	0	0				
			3. Number of Abandoned Wells in AOR Replugged	0	0	0	0				
			4. Number of Wells in AOR with "Other" Corrective Action	0	0	0	0				
<b>IX. Remarks/Ad Hoc Report (Attach additional sheets if necessary)</b>  											
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.											
Signature and Typed or Printed Name and Title of Person Completing Form Andrew Adgate								Date 5-19-16	Telephone No. 614-265-6673		

## Instructions and Definitions

All reporting is cumulative over the fiscal year, and includes activities from October 1 – September 30. All fields should contain a value. Do not leave blank fields. Enter 0 if there are no wells affected or no activities that occurred pertaining to the information requested. Enter NA if the field or section is not applicable to the submitter (e.g., the well type is not overseen by the submitter). Enter U if the information is unknown or not captured; fields designated as U require explanation.

### Section V. Permit Application

Enter, under each well class, the total number of permit applications that have been received this year to date. Include all applications, including incomplete applications, for individual and area permits. Include all applications regardless of whether they are for “New Wells” or “Existing Wells.”

A “New Well” is any well that began operation after the effective date of the State (or EPA) Underground Injection Control Program.

An “Existing Well” is any injection well that was in existence on the effective date of the State (or EPA) UIC Program.

A “New Well Field” has only “New Wells” or a combination of “New Wells” and “Existing Wells.” An “Existing Well Field” contains only “Existing Wells.”

### Section VI. Permit Determination

Permit Determinations include the approval, withdrawal, or denial of UIC permit requests/actions such as: applications for permits, major modifications to issued permits, revocation and reissuance of permits, or termination of permits for cause. A complete permit determination includes a thorough technical evaluation of the request, public notification or review before issuance, and a final decision document signed by the regulating authority.

**Item A:** For each well class, enter the number of individual permits issued for “New or Existing Wells” this federal fiscal year to date.

**Item B:** For each well class, enter the number of area permits that have been issued for “New or Existing Well Fields” this year to date.

**Item C:** For each well class, enter the number of “New and Existing Wells” covered by the Area Permits entered in Item B.

**Item D:** For each well class, enter the number of permits or major modifications denied by the UIC primacy program and/or permits withdrawn by applicants this federal fiscal year to date. The denial of a permit or major modification should be included as a permit determination only after there has been a complete technical review.

**Item E:** For each well class, enter the number of major modifications approved this federal fiscal year to date. An approved major modification requires a complete technical review, public notification or review, and a final decision document signed by the regulating authority.

### Section VII. Permit File Review

A complete technical review of a rule authorized Class II well record may be conducted to determine whether the well is in compliance with UIC regulatory requirements in lieu of a permit determination. The well record (or file) review may include an evaluation of siting reports, wells in the area of review, construction, operating, monitoring or other reports. These Class II wells should be routinely reviewed at least once every five years during the life of the well.

**Wells Reviewed:** For rule authorized (existing) Class II wells only, enter the number of wells with permit files reviewed and compliance status determined this federal fiscal year to date.

**Wells Deficient:** For rule authorized Class II wells, enter the number of reviewed wells that were found deficient (not in compliance with UIC regulations) and that received corrective action.

### Section VIII. Area of Review (AoR)

All wells that penetrate the injection zone in the AoR of an injection well/field are reviewed during permit determination or during any AoR analysis of a rule authorized well file.

**Item A:** For each well class, enter the number of “Abandoned” and “Other” wells reviewed in the AoR for each permit application or file that has been reviewed this federal fiscal year to date.

“Abandoned” includes any well penetrating the injection zone in the AoR that has been properly or improperly plugged and/or abandoned.

“Other” includes any producing well, operable injection well, dry hole, exploratory well, etc., that penetrates the injection zone in the AoR.

Corrective Action is required for those wells that penetrate the injection zone in the AoR that are improperly sealed, completed, or abandoned.

**Item B:** For each well class, enter the number of “Abandoned” and “Other” wells in the AoR that have required corrective action for each permit application or file reviewed this federal fiscal year to date.

**Item C:** For each well class, enter the number of wells in the AoR which have received corrective action (be specific) for all permit applications or files that have been reviewed this year to date.

#### Paperwork Reduction Act Notice

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours per year. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

United States Environmental Protection Agency Office of Ground Water and Drinking Water Washington, DC 20460 <b>EPA</b> <b>UIC Federal Reporting System</b> <b>Part II: Compliance Evaluation</b> (This information is solicited under the authority of the Safe Drinking Water Act)				<b>I. Name and Address of Reporting Agency</b> United States Environmental Protection Agency Ohio Department of Natural Resources Division of Oil and Gas Resources Mgmt 2045 Morse Road, BLDG F-2							
<b>II. Date Prepared (month, day, year)</b> 05/05/2016		<b>III. State Contact (name, telephone no.)</b> Andrew Adgate - 6142656673		<b>IV. Reporting Period (month, year)</b> From <b>October 1, 2015</b> To <b>3/31/2016</b>							
				<b>Class and Type of Injection Wells</b>							
				<b>A D</b>	<b>SWD 2D</b>	<b>II ER 2R</b>	<b>HC 2H</b>	<b>III</b>	<b>IV</b>	<b>V</b>	
<b>V. Summary of Violations</b>	Total Wells	A	Number of Wells with Violations	2	59	25		0			
	Total Violations	B	1. Number of Unauthorized Injection Violations	0	0	0		0			
			2. Number of Mechanical Integrity Violations	2	4	4		0			
			3. Number of Operation and Maintenance Violations	0	13	4		0			
			4. Number of Plugging and Abandonment Violations	0	0	0		0			
			5. Number of Monitoring and Reporting Violations	0	42	17		0			
			6. Number of Other Violations (Specify)	0	0	0		0			
<b>VI. Summary of Enforcement</b>	Total Wells	A	Number of Wells with Enforcement Actions	2	61	25		0			
	Total Enforcement Actions	B	1. Number of Notices of Violation	0	59	25		0			
			2. Number of Consent Agreements	0	0	0		0			
			3. Number of Administrative Orders	2	0	0		0			
			4. Number of Civil Referrals	0	2	0		0			
			5. Number of Criminal Referrals	0	0	0		0			
			6. Number of Well Shut-Ins	0	0	0		0			
			7. Number of Pipeline Severances	0	0	0		0			
8. Number of Other Enforcement Actions (Specify)	0	0	0		0						
<b>VII. Summary of Compliance</b>	Number of Wells Returned to Compliance		A. This Quarter	2	30	20		0			
			B. This Year	2	30	20		0			
VIII. Contamination	Number of Cases of Alleged Contamination of a USDW			0	0	0		0			
IX. MIT Resolved	Percent of MIT Violations Resolved in 90 Days			100	25	66		0			
<b>X. Remarks/Ad Hoc Report (Attach additional sheets)</b>											
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.											
Signature and Typed or Printed Name and Title of Person Completing Form Andrew Adgate								Date 5-19-16	Telephone No. 614-265-4423		

## Definitions and Instructions

All reporting is cumulative over the fiscal year, and includes activities from October 1 – September 30. All fields should contain a value. Do not leave blank fields. Enter 0 if there are no wells affected or no activities that occurred pertaining to the information requested. Enter NA if the field or section is not applicable to the submitter (e.g., the well type is not overseen by the submitter). Enter U if the information is unknown or not captured; fields designated as U require explanation.

A Class I, II, III, IV, or V injection well with a violation of a permit or rule requirement is said to be in noncompliance. Note: A well with certain types of violations may also be in significant noncompliance. (See Form 7520-2B (reverse) for definitions of SNC violations.)

### Section V. Summary of Violations

(Includes all noncompliance; significant and non-significant)

**A. Total Wells:** For each well class, enter the number of wells with one or more violations in this federal fiscal year to date. Enter each well only once. Include all wells with violations, even those with violations that have been returned to compliance.

#### B. Total Violations:

**Items 1-6:** For each well class, enter the number of times each violation type has been identified this federal fiscal year to date.

### Section VI. Summary of Enforcement

**A. Total Wells:** For each well class, enter the number of wells with one or more violations that have been addressed by the specific type of enforcement action in this federal fiscal year to date. Enter each well only once.

#### B. Total Enforcement Actions:

**Items 1-8:** For each well class, enter the number of times wells with one or more violations have been addressed by the specific type of enforcement action indicated in the row, in this federal fiscal year to date. (Count each draft and final Administrative Order.)

### Section VII. Number of Wells Returned to Compliance

A “Well Returned to Compliance” is a well that has all underlying violations resolved and compliance has been verified by the primacy program. Note: An enforcement action alone (e.g., well shut-in) does not constitute a “return to compliance;” however, plugging and abandonment does constitute a return to compliance.

A. For each well class, enter the number of wells returned to compliance through the second quarter for midyear reporting and through the fourth quarter for end of the year reporting.

B. For each well class, enter the number of wells returned to compliance through the second quarter for midyear reporting and through the fourth quarter for end of the end of year reporting.

### Section VIII. USDW Contaminations

For each well class, enter the number of times a well in noncompliance has allegedly contaminated an underground source of drinking water (USDW) this federal fiscal year to date.

### Section IX. Percent of MIT Violations Resolved in 90 Days

For each well class, enter the percentage of MIT violations resolved within 90 days as of the end of the reporting period.

- Mechanical Integrity violations are as defined in Section V, under “Mechanical Integrity.”
- Resolved is defined as returned to compliance (per Section VII).
- MI violations not associated with loss of mechanical integrity (such as reporting) are not counted under this section.
- Violations occurring WITHIN 90 days of September 30 should be included in reporting for the following federal fiscal year.

To calculate the percentage:

- Add up the total number of MIT violations that occurred within a one year period prior to 90 days before the end of the fiscal year reporting cycle i.e., 6/30.
- Add up the number of these violations that were *resolved within 90 days* as of 3/31 (for midyear reporting) or as of 9/30 (for end of year reporting).
- Calculate the percentage of total MIT violations that were resolved in 90 days or less.

Example for Midyear reporting:


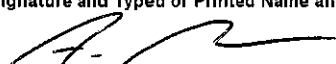
- Number of violations that occurred from 7/1 – 3/31 = 8
- Number of these violations resolved within 90 days as of 3/31 = 2
- Percentage of MIT violation resolved within 90 days = 25%

Example for End of Year reporting:

- Number of MIT violations that occurred from 7/1 – 6/30 = 10
  - 8 from midyear plus 2 additional (4/1 to 6/30)
- Number of these violations resolved within 90 days as of 9/30 = 5
  - 2 (from midyear) + 3 (from 4/1 to 6/30)
- Percentage of MIT resolved within 90 days by 9/30 = 50%

#### Paperwork Reduction Act

The public reporting and record keeping burden for this collection of information is estimated to average 6 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

 <b>United States Environmental Protection Agency</b> Office of Ground Water and Drinking Water Washington, DC 20460 <b>UIC Federal Reporting System</b> <b>Part II: Compliance Evaluation</b> <b>Significant Noncompliance</b> (This information is solicited under the authority of the Safe Drinking Water Act)				<b>I. Name and Address of Reporting Agency</b> United States Environmental Protection Agency Ohio Department of Natural Resources Division of Oil and Gas Resources Mgmt 2045 Morse Road, BLDG F-2 Columbus, OH 43229						
<b>II. Date Prepared (month, day, year)</b> 05/05/2016		<b>III. State Contact (name, telephone no.)</b> Andrew Adgate - 6142656673		<b>IV. Reporting Period (month, year)</b> From <b>October 1, 2015</b> To <b>03/31/2016</b>						
				Class and Type of Injection Wells						
				AD	II					
					SWD 2D	ER 2R	HC 2H	III	IV	V
V. Summary of Significant Non- Compliance (SNC)	Total Wells	A	Number of Wells with SNC Violations	0	0	0	0	0	0	0
	Total Violations	B	1. Number of Unauthorized Injection SNC Violations	0	0	0	0	0	0	0
			2. Number of Mechanical Integrity SNC Violations	0	0	0	0	0	0	
			3. Number of Injection Pressure SNC Violations	0	0	0	0	0	0	
			4. Number of Plugging and Abandonment SNC Violations	0	0	0	0	0	0	
			5. Number of SNC Violations of Formal Orders	0	0	0	0	0	0	
			6. Number of Falsification SNC Violations	0	0	0	0	0	0	
			7. Number of Other SNC Violations (Specify)	0	0	0	0	0	0	
VI. Summary of Enforcement Against SNC	Total Wells	A	Number of Wells with Enforcement Actions Against SNC	0	0	0	0	0	0	0
	Total Enforcement Actions	B	1. Number of Notices of Violation	0	0	0	0	0	0	0
			2. Number of Consent Agreements/Orders	0	0	0	0	0	0	
			3. Number of Administrative Orders	0	0	0	0	0	0	
			4. Number of Civil Referrals	0	0	0	0	0	0	
			5. Number of Criminal Referrals	0	0	0	0	0	0	
			6. Number of Well Shut-ins	0	0	0	0	0	0	
			7. Number of Pipeline Severances	0	0	0	0	0	0	
8. Number of Other Enforcement Actions Against SNC Violations (Specify)	0	0	0	0	0	0				
VII. Summary of Compliance	Number of Wells In SNC Returned to Compliance		A. This Quarter	0	0	0	0	0	0	0
			B. This Year	0	0	0	0	0	0	0
VIII. Contamination	Number of Cases of Alleged Contamination of a USDW			0	0	0	0	0	0	0
IX. Well Closure	Class IV/Endangering Class V Well Closures		Involuntary Well Closure					0	0	0
			Voluntary Well Closure					0	0	0
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.										
Signature and Typed or Printed Name and Title of Person Completing Form  Andrew Adgate							Date 5-19-16	Telephone No. 614-265-6673		

## Instructions and Definitions

All reporting is cumulative over the fiscal year, and includes activities from October 1 – September 30. All fields should contain a value. Do not leave blank fields. Enter 0 if there are no wells affected or no activities that occurred pertaining to the information requested. Enter NA if the field or section is not applicable to the submitter (e.g., the well type is not overseen by the submitter). Enter U if the information is unknown or not captured; fields designated as U require explanation.

*Note: Significant Noncompliance violations are a subset of the violations reported on EPA Form 7520-2A.*

**Definitions of SNC Violations:** SNC violations are violations that endanger or pose a significant potential to endanger underground sources of drinking water (USDWs), and violations that are not addressed after enforcement actions. For example:

1. The following violations for a Class I well:

- Contamination of a USDW;
- Injection of unauthorized fluid(s);
- Injection into unauthorized zones;
- Failure to cease injection after loss of MI detected; Failure to comply with corrective action requirements;
- Failure to operate automatic shutdown system;
- Failure to operate automatic warning system;
- Unauthorized plugging and abandonment;
- Violation of a Formal Order;
- Knowing submission of false information;
- Violations involving loss of mechanical integrity;
- Violations of maximum injection pressure;
- Failure to install and/or operate injection pressure and annulus pressure monitoring systems or other monitoring systems, required by permit or rule; and
- Failure to maintain required annulus pressure.

Also, any Class I well with a non-SNC violation that is noted three times within twelve months of the first violation is considered to be in SNC. List these Class I specific violations under Other SNC Violations unless they clearly fall within the categories of violations in the list below.

2. The following violations for a Class II, III, or V well:

- Unauthorized Injection – Any unauthorized emplacement of fluids (where formal authorization is required);
- Mechanical Integrity – Well operation without mechanical integrity which causes the movement of fluid outside the authorized zone – if injection of such fluid may have the potential for endangering a USDW;
- Injection Pressure – Well operation at an injection pressure that exceeds the permitted or authorized injection pressure and causes the movement of fluid outside the authorized zone of injection – if such movement may have the potential for endangering a USDW;
- Plugging and Abandonment – The plugging and abandonment of an injection well in an unauthorized manner. These wells are in SNC only when there is endangerment of USDW and there is an identifiable owner/operator;
- Violation of a Formal Order – Any violation of a formal enforcement action, including an administrative or judicial order, consent agreement, judgment, or equivalent action;
- Falsification – The knowing submission or use of any false information in a permit application, periodic report or special request for information about a well; or
- Other SNC Violations.

3. Any violation for a Class IV well.

**Section V. Total No. of Wells with SNC Violations:** *Significant Noncompliance violations are a subset of the violations reported on EPA Form 7520-2A.* For each well class, enter the number wells with SNC violations identified in the federal fiscal year to date. Report the well even if the violation has been corrected. *Count each well only once.*

For each well class in subsections 1 through 7, enter the number the number of times each SNC violation has been identified this federal fiscal year to date.

**Section VI. Total SNC Enforcement Actions:** *Significant Noncompliance violations are a subset of the violations reported on EPA Form 7520-2A.* For each well class, enter the number of wells with SNC violations that have received an enforcement action(s) this year to date. Report the well even if the violation has been corrected. *Count each well only once.*

For each well class in subsections 1 through 8, enter the number of times wells with SNC violations have received each type of enforcement action this federal fiscal year to date.

**Section VII. No. of Wells Returned to Compliance:** *“Well Returned to Compliance” is a well that has all underlying violations resolved and compliance has been verified by the primacy program. Note: an enforcement action alone (e.g., well shut-in) does not constitute a “return to compliance;” however, plugging and abandonment does constitute a return to compliance.*

For each well class in subsection A, enter the number of wells returned to compliance (as a result of an enforcement action against a SNC violation). For each well class in subsection B, enter the number of wells returned to compliance (as a result of an enforcement action against an SNC violation) this federal fiscal year to date. *Enter each well only once.*

**Section VIII. USDW Contaminations:** For each well class, enter the number of times a well in SNC has allegedly contaminated a USDW this federal fiscal year to date.

**Section IX. Number of Class IV/V Endangering Class V Well Closures:** For Class IV and Class V wells, enter the number of voluntary or involuntary well closures.

Voluntary well closure means well closed as a direct result of outreach activities.

Involuntary well closure means wells closed as a result of enforcement actions or permit call-ins.

Well closure describes a process to permanently discontinue injection in accordance with the UIC regulations.

### Paperwork Reduction Act

The public reporting and record keeping burden for this collection of information is estimated to average 5.5 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, DC 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

United States Environmental Protection Agency Office of Ground Water and Drinking Water Washington, DC 20460  <b>EPA</b>  <b>UIC Federal Reporting System</b> <b>Part III: Inspections</b> <b>Mechanical Integrity Testing</b> (This information is solicited under the authority of the Safe Drinking Water Act)				<b>I. Name and Address of Reporting Agency</b>  United States Environmental Protection Agency Ohio Department of Natural Resources Division of Oil and Gas Resources Mgmt 2045 Morse Road, BLDG F-2 Columbus, OH 43229							
<b>II. Date Prepared (month, day, year)</b> 05/05/2016		<b>III. State Contact (name, telephone no.)</b> Andrew Adgate - 6142656673		<b>IV. Reporting Period (month, year)</b> From <b>October 1, 2015</b> To <b>03/31/2016</b>							
				Class and Type of Injection Wells							
				A D	II SWD 2D	ER 2R	HC 2H	III	IV	V	
V. Summary of Inspections	Total Wells	A	Number of Wells Inspected	106	1,074	336		20			
	Total Inspections	B	1. Number of Mechanical Integrity Tests (MIT) Witnessed	7	18	12		4			
			2. Number of Emergency Response or Complaint Response Inspections	0	10	0		0			
			3. Number of Well Constructions Witnessed	0	3	0		2			
			4. Number of Well Pluggings Witnessed	5	1	0		2			
			5. Number of Routine/Periodic Inspections	94	1,042	324		12			
VI. Summary of Mechanical Integrity  (MI)	Total Wells	A	Number of Wells Tested or Evaluated for Mechanical Integrity (MI)	7	18	12		4			
	For Significant Leak	B	No. of Rule-Authorized Wells Tested/Evaluated for MI	0	0	0		0			
			Passed 2-part test	0	0	0		0			
		C	1.	Number of Annulus Pressure Monitoring Record Evaluations	0	681	286		0		
				Well Failed	0	0	0		0		
			2.	No. of Casing/Tubing Pressure Tests	0	18	12		4		
				Well Failed	0	0	0		1		
	3.	Number of Monitoring Record Evaluations	0	216	127		49				
		Well Failed	0	0	0		0				
	D	4.	No. of Other Significant Leak Tests/Evaluations (Specify)	7	4	0		0			
			Well Failed	0	0	0		0			
		For Fluid Migration	1.	Number of Cement Record Evaluations	7	3	0		0		
				Well Failed	3	0	0		0		
	2.		Number of Temperature/Noise Log Tests	0	0	0		0			
			Well Failed	0	0	0		0			
	D	3.	No. of Radioactive Tracer/Cement Bond Tests	0	1	0		1			
			Well Failed	0	0	0		0			
		4.	No. of Other Fluid Migration Tests/Evaluations (Specify)	7	0	0		4			
Well Failed			0	0	0		1				
VII. Summary of Remedial Action	Total Wells	A	Number of Wells with Remedial Action	0	14	12		1			
	Total Remedial Actions	B	1. Number of Casing Repaired/Squeeze Cement Remedial Actions	0	0	0		1			
			2. Number of Tubing/Packer Remedial Actions	0	14	12		0			
			3. Number of Plugging/Abandonment Remedial Actions	0	0	0		0			
			4. Number of Other Remedial Actions (Specify)	0	0	0		0			
<b>VIII. Remarks/Ad Hoc Report (Attach additional sheets)</b>											
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.											
Signature and Typed or Printed Name and Title of Person Completing Form Andrew Adgate								Date 5-19-16		Telephone No. 614-265-6673	



## Instructions and Definitions

All reporting is cumulative over the fiscal year, and includes activities from October 1 – September 30. All fields should contain a value. Do not leave blank fields. Enter 0 if there are no wells affected or no activities that occurred pertaining to the information requested. Enter NA if the field or section is not applicable to the submitter (e.g., the well type is not overseen by the submitter). Enter U if the information is unknown or not captured; fields designated as U require explanation.

### Section V. Summary of Inspections

A complete inspection should include an assessment of: the well head, pressure and flow meters, pipeline connections, and any other equipment associated with the injection system. An inspection is complete only when a report has been filed with the primacy agency.

Item A: For each well class, enter the number of wells that have been inspected as of the end of the reporting period. Enter each well only once.

Total Inspections (this federal fiscal year to date):

Item 1: For each well class, enter the number of inspections to witness field Mechanical Integrity Tests. (At least 25% of MITs performed by operators each year should be witnessed.)

Item 2: For each well class, enter the number of inspections that have been in response to a problem reported to the regulating authority.

Item 3: For each well class, enter the number of inspections of well constructions or any preoperational activities.

Item 4: For each well class, enter the number of inspections of plugging and abandonment.

Item 5: For each well class, enter the number of inspections that have been routine / periodic.

### Section VI. Summary of Mechanical Integrity

A complete MIT is composed of a test for significant leaks in the casing, tubing or packer and a test for significant fluid migration into a USDW through vertical channels adjacent to the well bore. An MIT consists of a field test on a well or an evaluation of a well's monitoring records (i.e., annulus pressure, etc.) or cement records. At a minimum, the mechanical integrity of a Class I, II, or III (solution mining of salt) well should be demonstrated at least once every five years during the life of the well.

Item A: For each well class, enter the total number of wells (i.e., permitted *and* rule authorized) that have had a complete MIT this federal fiscal year to date. Enter each well only once.

Item B: For each well class, enter the number of rule authorized wells that have passed a complete MIT and the number that have failed a complete MIT this federal fiscal year to date.

Item C: Significant Leak Tests: (this federal fiscal year to date)

Items 1-4: For each well class, enter the number of times wells have passed or failed a field test/record evaluation for significant leaks.

Item D: Fluid Migration Tests (this federal fiscal year to date):

Items 1-4: For each well class, enter the number of times wells have passed or failed a field test/record evaluation for fluid migration.

### Section VII. Summary of Remedial Action

A failure of mechanical integrity (MI) may occur at any time during the life of an injection well. Failure may be identified during an inspection, a field test, an evaluation of well records, or during routine operation of a well. Remedial actions include additional permit conditions, monitoring, or testing.

Item A: For each well class, enter the number of wells that have received remedial actions this federal fiscal year to date. Enter each well only once.

Total Remedial Actions: (this federal fiscal year to date):

Item 1-4: For each well class, enter the number of times that wells have received remedial action.

#### Paperwork Reduction Act

The public reporting and record keeping burden for this collection of information is estimated to average 5 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, DC 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

## UIC Federal Reporting System

## Part IV: Quarterly Exceptions List

**(This information is collected under the authority of the Safe Drinking Water Act)**

OMB No. 2040-0042

**Approval expires 12/31/18**

### **I. Reporting Period**

**From**

10-1-1

71-316

[illegible]

## Certification

**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

**Signature of Person Completing Form**

**Typed or Printed Name and Title**

Date \_\_\_\_\_

5-19-12

**Telephone No.**

614-265-6273

## Instructions and Definitions

The Quarterly Exceptions list is used to track wells reported in significant noncompliance (SNC) on EPA Form 7520-2B for two or more consecutive quarters without being addressed with a formal enforcement action or being returned to compliance. Any SNC reported on Form 7520-4 shall be reported until the well in SNC is returned to compliance. The well is removed from the exceptions list in the subsequent reporting period.

Do not leave the form blank. If there are no exceptions, indicate none.

### Section I - Reporting Period

All reporting is cumulative over the federal fiscal year, and includes activities from October 1- March 31 (for midyear reporting) and from October 1- September 30 (for end of year reporting).

### Section II - Well Class and Type

Enter the well class and type of each well in SNC for two or more consecutive quarters. For Class I wells, specify IH for hazardous waste, IM of municipal waste, Ii for industrial waste. For Class II wells, specify IID for saltwater disposal, IIR for enhanced recovery, IIH for liquid hydrocarbon storage.

### Section III - Name and Address of Owner/Operator

Enter the name and address of the primary contact for the injection well. Use multiple lines of the form if needed. (You may use one form for each owner/operator.)

### Section IV - Well ID No. (Permit No.)

Enter the primacy agency-assigned I.D. number of the injection well in SNC. If the well has a UIC permit number, enter this as the I.D. number.

### Section V - Summary of Violations

Enter the date the SNC violation was first identified and place an "X" in the appropriate column. In the event that there were multiple SNC violations for a single well, enter each violation and the date it was identified on a separate line.

### Section VI - Summary of Enforcement

Enter the date an enforcement action was taken against the SNC violation and place an "X" in the appropriate column. In the event that there were multiple enforcement actions, enter each enforcement action and the date it was taken on a separate line.

### Section VII - Date Compliance Achieved

Enter the date compliance is achieved for each violation.

#### Paperwork Reduction Act

The public reporting and record keeping burden for this collection of information is estimated to average 2 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, DC 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

State	# MIT VIOLATIONS	# MIT VIOLATIONS ADDRESSED	% VIOLATIONS ADDRESSED
OHIO - DNR CLASS II	10	10	100%
OHIO - DNR CLASS III	0	0	100%

## **ANNULAR DISPOSAL WELLS**

**Federal Fiscal Year 2016 – October 1, 2015 to March 31, 2016**

**MITS Conducted = 7**

New Wells = 1 (reapplication)      Passed = 7   Failed = 0  
Existing wells = 6

**2<sup>nd</sup> Round MITS = 6**

Passed = 6  
Failed = 0

Did not test, so Annular Disposal Authorization Revoked = 2 wells

**Inspections:**   Revoked Annular Disposal Wells = 2  
                     Existing Well AD Permits Issued = 4  
                     Well Constructions witnessed = 0 (all permits were for existing wells)  
                     Mechanical Integrity Tests = 7  
                     Temporarily Abandoned Annular Disposal Well Inspections = 99  
                     Authorized AD well inspections = 7  
                     Routine inspections = 94

**Temporarily Abandoned Annular Disposal (TAAD) Wells:**

Total TAAD wells as of March 31, 2016 = 1939 wells

**Total TAAD wells removed from TAAD status since October 1, 1992 = 8,230 wells**

**Currently authorized Annular Disposal Wells as of March 31, 2014 = 73 wells**

## UIC WELL INVENTORY NUMBERS

### FIRST HALF FFY 2016

Type	Drilled/Drilling/Permitted	Active	Temporarily Abandoned	Number of Sites	Total	Total Plugged/Abandoned IN FFY 2015
Class II ER	2 wells	127 wells	0	30	129 wells	0 wells
Class II SWD	27 wells	216 wells	0	243	243 wells	1 wells
Class II AD	4 wells	73 wells	1939 wells	NA	2016 wells	5 wells
Class III SMP	1 wells	49 wells	0	4	50 wells	3 wells

## **SEMI-ANNUAL TECHNICAL REPORT – FEDERAL FISCAL YEAR 2016**

For first half of Federal Fiscal Year (FFY) 2016, the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management, in most cases, met or exceeded the Year 2015 Performance Measures and Outputs. Permitting activity for conventional Class II, Class III, and Class II Annular Disposal wells is continuing to see a decrease. The Division issued 3 Class II and 2 Class III permits during the first half of FFY 2016. UIC staff reviewed all permit applications internally and the Division's field staff witnessed the critical construction operations. During the first half of FFY 2016, the Division conducted 1513 compliance reviews and inspections on Ohio's Class II, Class II Annular Disposal, and Class III wells. The State continued to witness 100% of the mechanical integrity tests. In the first half of FFY 2016, Division personnel witnessed a total of 65 Class II, Class II Annular Disposal, and Class III mechanical integrity tests. All conventional Class II wells are required to continuously monitor the annulus pressure or perform monthly mini-tests to demonstrate mechanical integrity. Class II Annular Disposal and Class III wells require mechanical integrity tests every five years.

All conventional Class II wells are inspected approximately every 11 to 12 weeks. In the first half of FFY 2016, the Division issued 88 notices of violation and administrative orders for conventional Class II, Class III, and Class II annular disposal wells. Two of the administrative orders were for annular disposal revocation or for suspension of injection operations. None of these MIT violations are considered Significant Non-Compliance (SNC) because there was no threat to USDWs. The Division's field staff conducted inspections to ensure compliance with these administrative orders and any well in non-compliance was pursued with additional enforcement action.

In the first half of FFY 2016, the Division continued the data entry of all pertinent UIC Class II and Class III technical information into the RBDMS database system. All of the UIC field inspections are being entered directly into the RBDMS database. Hard copies are made for the paper files kept in the central office. The Division is working to upgrade our RBDMS to a web-based database in the near future. The Division is e-mailing the UIC Class II Monthly Injection Well inventory list to all of the field staff and regional offices. This list is continually being maintained and updated by the UIC staff. The Division continues to maintain all of the UIC files in the paper form in the UIC Section. Technical staff members maintained these files for reporting, compliance schedules, investigations, enforcement actions, and semi-annual reporting to US EPA Region V.

UIC personnel were involved in informal public meetings in the first half of FFY 2016. The Division of Oil and Gas Resources Management continued to participate in national conferences and meetings held by the Ground Water Protection Council (GWPC) and Interstate Oil and Gas Compact Commission (IOGCC) during the first half of FFY 2016. The Division continues to train the new field staff regarding UIC inspections, mechanical integrity testing, and the other Standard Operating Procedures developed for the UIC Program.